

slp Thurs 22/05

Work Order ID 119744

119744

Page 1

May-21-14 10:50:38 AM

Item ID: D350-689-021

Accept

N900040100

Setup Start *NS1*

Revision ID:

Item Name: Dual High Back Seat Installation - Energy Attenuating Seat Compatible

Stop *NS2*

Start Date: 5/21/14

Start Qty: 1.00

1

Cust Item ID:

Required Date: 5/22/14

Req'd Qty: 1.00

1

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start *NR1*

QC:

Date:

SPC (Y/N):

Date:

Stop *NR2*

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

Draw Nbr

Revision Nbr

DSI 9588

B

IIN-D350-689

B

100

Document Control

0.00

D&S

100

DOCUMENT CONTROL

06

DC

Memo

0.00

9-89

Doc.Control -USB or Paperwork

Photocopy bluefile and create labels per PPP D350-689-021 CHG005

145 14-05-21

MAY 21 2014

Work Order ID 119744

May-21-14 10:50:38 AM

119744

Page 2

Item ID: D350-689-021

Accept

N900040100

Setup Start

NS1

Revision ID:

Item Name: Dual High Back Seat Installation - Energy Attenuating Seat Compatible

Stop

NS2

Start Date: 5/21/14

Start Qty: 1.00

1

Cust Item ID:

Required Date: 5/22/14

Req'd Qty: 1.00

1

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start

NR1

QC:

Date:

SPC (Y/N):

Date:

Stop

NR2

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

102

0.00

102

Small Fab

Small Fab

Memo

PULL FROM STK:

1 X D350-689-011 B111500

ASSEMBLE TO MAKE D350-689-021

ADD TO KIT FOR ASS'Y:

2 X D3808-041 B 44178

4 X D3809-1 B 113135

4 X MS24694-S148 B M125654

8 X MS24694-S3 B M127831

RETURN TO STK:

4 X D3028-1B106728

2 X D3029-1 B111093

2 X D3030-1 B116996

DSICARD ANY USED HARDWARE

DAS

27

5-89

105

QC5- Inspect part completeness to step on W/O

0.00

105

QC

Quality Control

Memo

0.00

M/S/21

DAS

36

9-89

Work Order ID 119744

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119744

Page 3

Item ID: D350-689-021

Accept

N900040100

Setup Start

NS1

Revision ID:

Item Name: Dual High Back Seat Installation - Energy Attenuating Seat Compatible

Stop

NS2

Start Date: 5/21/14

Start Qty: 1.00

1

Cust Item ID:

Required Date: 5/22/14

Req'd Qty: 1.00

1

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start

NR1

QC:

Date:

SPC (Y/N):

Date:

Stop

NR2

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

110

Pick Kit

0.00

110

Packaging

Memo

0.00

DAS
31
9-89

1

DAS
31
9-89

6 11 14

Packaging

ADD TO KIT:

1 X D350-689-023 B 117133

RETURN TO STK:

1 X D350-689-013 B111058

120

QC4- 100% Inspect kits for completeness

0.00

120

QC

Memo

0.00

DAS
05
2-89

Quality Control

MAY 21 2014

Work Order ID 119744

May-21-14 10:50:38 AM

119744

Page 4

Item ID: D350-689-021

Accept

N900040100

Setup Start

NS1

Revision ID:

Item Name: Dual High Back Seat Installation - Energy Attenuating Seat Compatible

Stop

NS2

Start Date: 5/21/14

Start Qty: 1.00

1

Cust Item ID:

Required Date: 5/22/14

Req'd Qty: 1.00

1

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

QC:

Date:

SPC (Y/N):

Date:

Run Start

NR1

Stop

NR2

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

130

0.00

130

Packaging

0.00

Packaging

Memo

REPACKAGE AS D350-689-021
USING NEW B/N. NEW LABELS REQ'D

DAS
6
9-89

Identify and pack for shipping as per PPP D350-689-021

Location:

PPP Rev:

140

QC21- Final Inspection - Work Order Release

0.00

140

QC

Memo

0.00

Quality Control

MLJ 14-05-21

MF
14-5-21

Picklist Print

May-21-14 10:50:37 AM

Page 1

Work Order ID: 119744

119744

Parent Item: D350-689-021

D350-689-021

Parent Item Name: Dual High Back Seat Installation - Energy Attenuating Seat Compatible

Start Date: 5/21/14

Required Date: 5/22/14

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP Rev:A 08-12-23 new issue DD verified by: LL 08.12.24 IPP
Rev:B chg002 DD 10.02.12 verified by:JLM IPP Rev:C
chg004 DD 11.09.28 verified by:JLM IPP Rev:D 12.01.12
now @ CHG005 (ecn12-501) DD VERF:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D3028-1 *D3028-1* Stud		Manufactured	No				Each	26.0000	**	-4			
				<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>							
				ST023	26								
				106728	6								
				109929	20								
D3029-1 *D3029-1* Spring		Manufactured	No				Each	10.0000	**	-2			
				<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>							
				GA	10								
				11093	10								
D3030-1 *D3030-1* Lock		Manufactured	No				Each	20.0000	**	-2			
				<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>							
				ST023	10								
				111519	10								
				ST024	10								
				116996	10								
D350-689-011 *D350-689-011* Dual High Back Seat Installation		Manufactured	No				Each	0.0000					

DART		1270 ABERDEEN ST NEW KESBURY ON CANADA K6A 1K7 TEL: 905-632-5200 www.dartprospect.com	
PATENT	N/A	CHG	CHG006
P/N	D350-689-011	STC	SH02-33
DESC	Dual High Back Seat, LH	STC	SR01620NY
LOT	B111500	STC	
MODEL	AS350/355	STC	
TC APPROVAL # 09-09		MADE IN CANADA	

Picklist Print

May-21-14 10:50:37 AM

Page 2

Work Order ID: 119744

119744

Parent Item: D350-689-021

D350-689-021

Parent Item Name: Dual High Back Seat Installation - Energy Attenuating Seat Compatible

Start Date: 5/21/14

Required Date: 5/22/14

Start Qty: 1.00

Required Qty: 1.00

D350-689-013

Manufactured No

Each

2.0000

-1

D350-689-013

Floor Provisions

DAS
05
3-89

Location

Loc Qty

Loc Code

FG041

2

111058

2

D3808-041

Manufactured No

Each

0.0000

2

D3808-041

Seat Rail Assembly

D3809-1

Manufactured No

Each

9.0000

4

D3809-1

Sliding Block

Location

Loc Qty

Loc Code

ST064

9

110210

5

113135

4

MS24694-S148

Purchased No

Each

29.0000

4

MS24694-S148

SCREW

Location

Loc Qty

Loc Code

ST304

16

m128650

16

ST335

13

125654

13

MS24694-S3

Purchased No

Each

155.0000

8

MS24694-S3

Screw

Location

Loc Qty

Loc Code

ST302

155

125654

5

m127831

150

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Work Order ID: 119744

119744

Parent Item: D350-689-021

D350-689-021

Parent Item Name: Dual High Back Seat Installation - Energy Attenuating Seat Compatible

Start Date: 5/21/14

Required Date: 5/22/14

Start Qty: 1.00

Required Qty: 1.00

D350-689-023

Manufactured No

110

Each

1.0000

1

1

D350-689-023

Floor Provisions - Energy Attenuating Seat Compatible

Location

Loc Qty

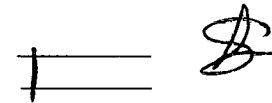
Loc Code

FG041

1

117133

1



DAS
06
2-89

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D350-689 REV. A
AND FLIGHT MANUAL SUPPLEMENT FMS-D350-689 REV. A
AND INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D350-689 REV. 0
REF. CANADIAN STC: SH02-33
REF. FAA STC: SR01620NY

REFERENCE ONLY

PURPOSE

The purpose of this DSI is to add the D350-689-021 Dual High Back Seat Installation, LH, the D350-689-023 Floor Provisions Kit and the D350-689-043 Dual High Back Seat Assembly to IIN-D350-689 Rev. A. The D350-689-021/-023 Kits are compatible with the Energy Attenuating Seat rails in later AS 350/355 model aircraft.

The DSI 9419-011 Kit includes the parts that are required to convert a D350-689-011 installation into a D350-689-021 installation.

PART LIST




-011	-021	-023	-043	P/N	DESCRIPTION
X				DSI 9419-011	ENERGY ATTENUATING CONVERSION KIT
	X			D350-689-021	DUAL HIGH BACK SEAT INSTALLATION, LH
	1	X		D350-689-023	ENERGY ATTENUATING FLOOR PROVISIONS KIT
	1		X	D350-689-043	DUAL HIGH BACK SEAT ASSEMBLY
			2	D3016-041	SEAT FRAME ASSEMBLY
			1	D3017-041	BACK FRAME ASSEMBLY
	1			D3018-1	SEAT CUSHION
	1			D3019-1	BACK CUSHION
			1	D3021-041	TUBE ASSEMBLY
			1	D3022-1	SEAT PAN
			1	D3023-1	BACK PANEL
			3	D3024-1	SPACER
		1		D3025-1	BEAM
		1		D3026-1	CHANNEL
		1		D3027-1	CLIP
		1		D3027-3	CLIP
		1		D3027-5	CLIP
		4		D3027-7	CLIP
			2	D3031-1	LOOP
1		1		D3234-1	DOUBLER
1		1		D3234-3	DOUBLER
2			2	D3808-041	SEAT RAIL ASSEMBLY
4			4	D3809-1	SLIDING BLOCK
1		1		D3811-041	SEAT TRACK ASSEMBLY

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: 
D. SHEPHERD (DE # 02)

DATE: Aug. 19/2008
CERT. NO.: SH02-33
ISSUE NO.: 1

A	NEW ISSUE	RF	08.08.19
REV.	DESCRIPTION	BY	DATE
DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED		DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9419	SHEET 1 OF 5
APPROVED		TITLE	SCALE
DE APPR.		ENERGY ATTENUATING PROVISION KIT	NTS
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Picklist Print

Tuesday, March 09, 2010 12:35:28 PM

Page 3

Work Order ID: 56775

Parent Item: D350-689-041

Parent Item Name: Dual High Back Seat Ass'y

Comments: IPP Rev:H Removed Sub-Parts 06-02-09 JLM
IPP Rev:I As per NCR 070 06-09-06 JLM
DSI 9498 DD 10.02.12 verified by:JLM

IPP Rev:J as per

Start Date: 3/9/2010

Required Date: 3/23/2010

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/	Replacement	Mfg/	Bin	Primary	Last	Route	Unit of	Qty on	Remaining	Qty	Date	Status
--------------------	-------------	------	-----	---------	------	-------	---------	--------	-----------	-----	------	--------

D3028-1



Stud

return to stock

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST034

10

42446

10

140

Each

8.0000

2.0000

D3029-1



Spring

Manufactured

No

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST034

8

46848

8

140

Each

6.0000

2.0000

D3030-1



Lock

Manufactured

No

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST034

6

50363

6

ES 10/03/16
m-l 10/11/05 (4X)

ES 10/03/16
m-l 10/11/05 (2X)

ES 10/03/16
m-l 10/11/05 (2X)

Tuesday, March 09, 2010 12:35:28 PM

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Page 3

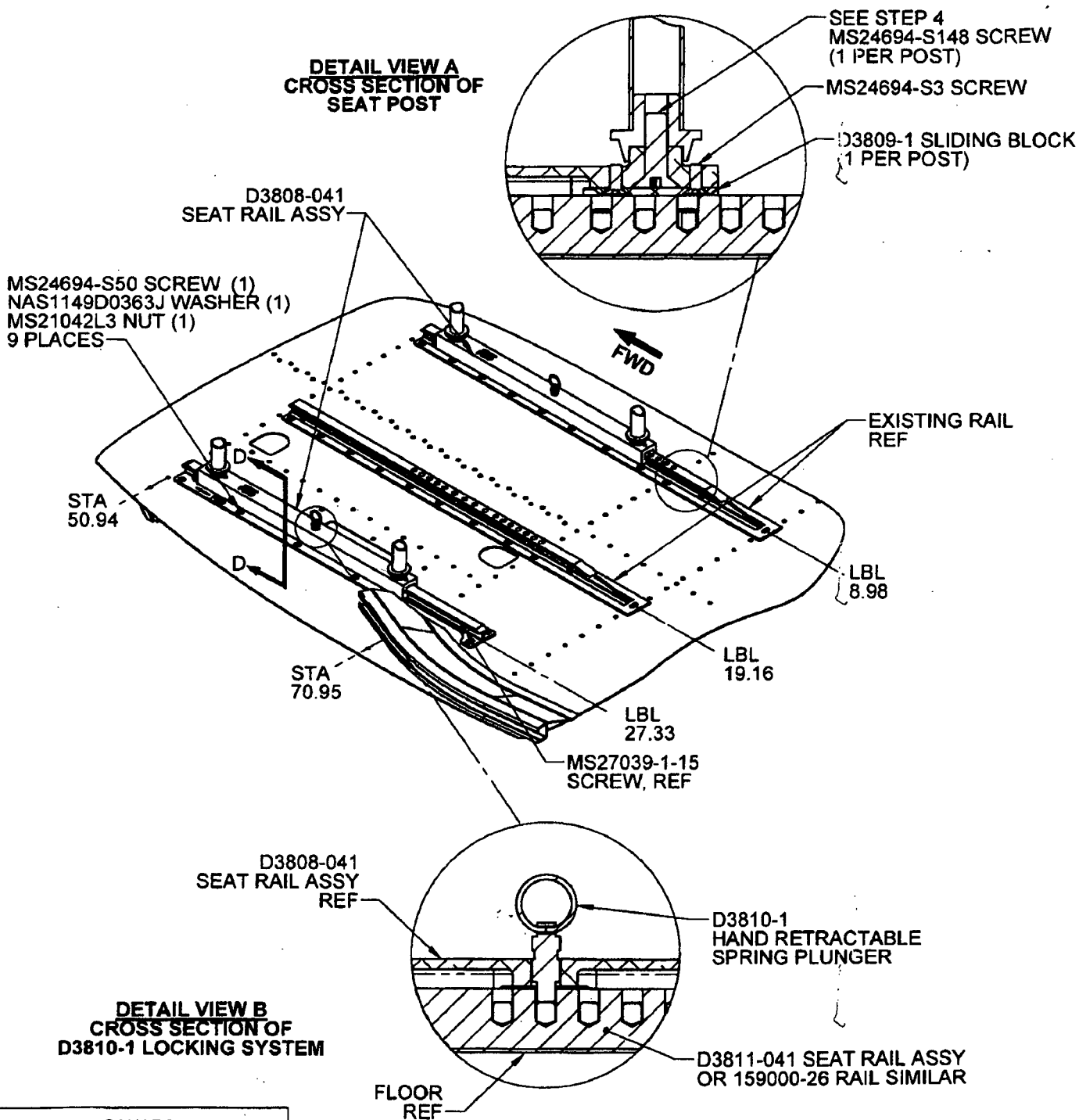


FIGURE 1 D350-689-021 INSTALLATION

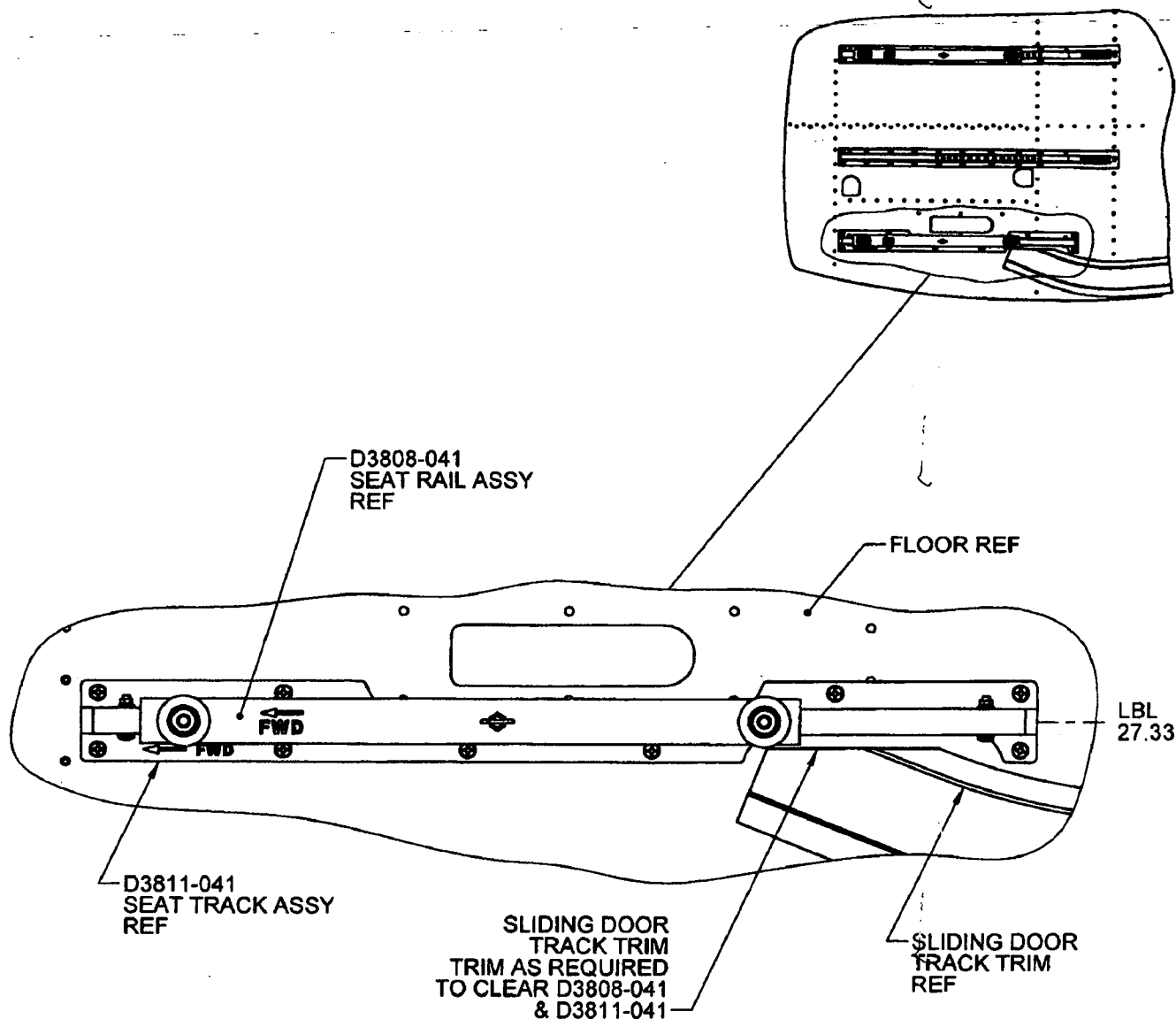
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AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: *[Signature]*
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**DETAIL VIEW C
SLIDING DOOR TRACK TRIM**

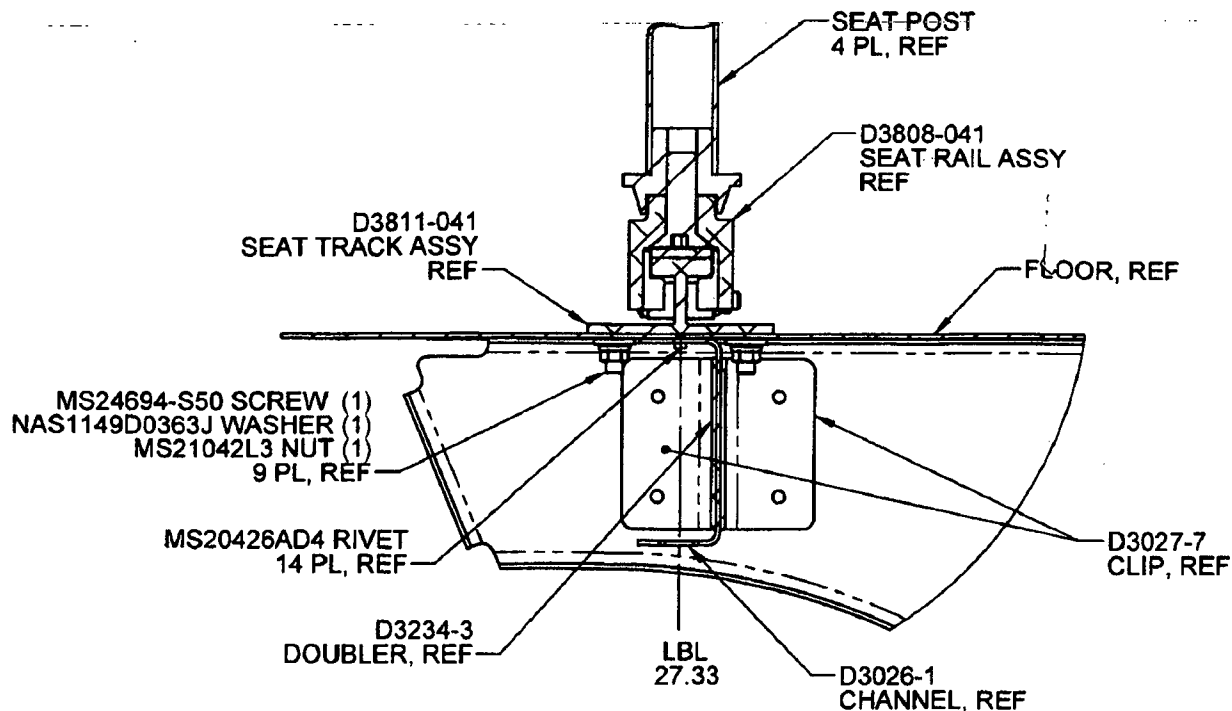
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CROSS SECTION D-D

WEIGHT AND BALANCE

The following is the net weight increase associated with the Kits.

Installation	Weight	LATERAL		LONGITUDINAL	
		Arm	Moment	Arm	Moment
DSI 9419-011 Energy Attenuating Conversion Kit	1.1 lb 0.50 kg	-18.2 in -0.46 m	-20 in-lb -0.2 m-kg	60.7 in 1.54 m	67 in-lb 0.77 m-kg
D350-689-021 Dual High Back Seat Installation, LH Fwd Position	28.6 lb 13.0 kg	-18.2 in -0.46 m	-521 in-lb -6.0 m-kg	60.7 in 1.54 m	1736 in-lb 20.0 m-kg
D350-689-021 Dual High Back Seat Installation, LH Aft Position	28.6 lb 13.0 kg	-18.2 in -0.46 m	-521 in-lb -6.0 m-kg	64.7 in 1.64 m	1850 in-lb 21.3 m-kg
D350-689-023 Energy Attenuating Floor Provisions Kit	2.5 lb 1.1 kg	-18.2 in -0.46 m	-46 in-lb -0.5 m-kg	62.2 in 1.58 m	156 in-lb 1.7 m-kg

REVISED LOADING CHART

With respect to the Loading Chart in FMS-D350-689, when the Dual High Back Seat has been installed in an aircraft with Energy Attenuating Seat rails per this DSI, the occupants are located at STA 61.02 when the seat is in the Fwd position and at STA 65.02 when the seat is in the Aft position.

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DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: *[Signature]*
D. SHEPHERD (DE # 02)

DATE: Aug. 19/2008
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ISSUE NO.: 1

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CHECKED	RF	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9419	SHEET 5 OF 5
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